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ABSTRACT

Teaching geography is the topic of this annotated bibliography. The following kinds and amounts of materials are cited: (1) 9 citations from "Resources in Education" (RIE); (2) 10 citations from "Current Index to Journals in Education" (CIJE); (3) 37 commercially available "Student and Teacher Materials" (12 textbooks, 5 supplementary print materials, 10 multimedia materials, 4 games and simulations, and 6 teacher resources); (4) 4 related professional organizations that may prove helpful in this area; and (5) 2 journals and newsletters. (DC)

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# REFERENCE SHEET ON GEOGRAPHY

ERIC Clearinghouse for Social Studies/Social Science Education Boulder, CO

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This reference sheet is provided as a service of ERIC/ChESS. It is intended to indicate the variety of useful materials available by listing a sampling of current materials and resources representing various educational strategies and a diversity of developers or publishers. It is our hope that this document will assist you to broaden your search for appropriate, stimulating, and pedagogically sound educational materials. We welcome your interest and hope that ERIC/ChESS may be of further service to you in the future.

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If you have any further questions or need information on any topic in the area of social studies/social science education, please let us know by letter to ERIC/ChESS, 855 Broadway, Boulder, Colorado 80302, or by phone (303) 492-8434.

CONTACT A PROFESSIONAL ORGANIZATION

American Geographical Society
Broadway at 15th Street
New York, New York 10032

Association of American Geographers
1710 16th Street, N.W.
Washington, D.C. 20009

National Council for Geographic Education
University of Houston
Houston, Texas 77004

National Geographic Society
17th and M Streets, N.W.
Washington, D.C. 20036

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JOURNALS AND NEWSLETTERS

Journal of Geography
National Council for Geographic Education
(see address above)

National Geographic
National Geographic Society (see address above)

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January 1982

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ED 204 204. SOME ASPECTS OF THE STUDY AND TEACHING OF GEOGRAPHY IN THE UNITED STATES: A REVIEW OF CURRENT RESEARCH. 1965-1975. OCCASIONAL PAPER NO. 30, by R.N. Saveland and C.W. Pannell. 1978. 36 pp. EDRS price: MF01 plus postage; PC not available from EDRS.

This document presents a survey of recent research that identifies major trends in American geographic education and evaluates some of the recent research. The research is organized into seven topics: interests and attitudes of teachers and students, the historical development of ideas, comparative education, assessment and examinations, curriculum and curricular change, cognitive development, and techniques of teaching. The document concludes that the three main areas of progress are research in cognitive development and the ability of children to learn geography; curriculum, curricular changes, and materials; and research on teaching techniques.

ED 201 541. FIELDWORK IN GEOGRAPHY AND LONG TERM MEMORY STRUCTURES, by Andrew A. Mackenzie and Richard T. White. 1981. 29 pp. EDRS price: MF01/PC02 plus postage.

This paper discusses a study of learning retention among junior high school students involved in a field trip in a geography course. The study involved comparing learning retention of geographical facts and skills among three groups of students in grades 8 and 9 in two junior high schools in Melbourne, Australia. One group was treated to an excursion stressing processing of meaning of phenomena observed and experienced during the field trip, one group participated in a traditional, passive excursion, and the final group had no field trip. Findings from a statistical analysis of test scores indicate that information and skill links such as those encouraged during the geography field trip discussed in this paper will aid recall of facts and skills.

ED 199 167. GEOGRAPHY AND INTERDISCIPLINARY, FUTURE ORIENTED EDUCATION, by C. Murray Austin. 1980. 18 pp. EDRS price: MF01/PC02 plus postage.

This paper identifies issues which can best be understood within a geographic dimension and suggests how educators at all levels can help students understand the increasing interdependence in economic, political, social, and technological systems by emphasizing geography's integrative dimensions. The issues examined include storage of toxic waste, development of an efficient energy system, decay of central cities, the misuse of land for short-term profit, and water crises in western and southern states. Specific ways in which geography can be incorporated into the curriculum are (1) helping students organize events in their spatial context (elementary grades), (2) encouraging students to use geographic methodology (intermediate grades), and (3) helping students explore specific issues and problems by using materials and methodologies from a variety of disciplines (advanced levels).

ED 188 972. AN ANALYSIS OF THE STATUS OF GEOGRAPHY IN AMERICAN SCHOOLS, by Gary Manson. 1980. 17 pp. EDRS price: MF01/PC02 plus postage.

This paper provides a brief overview of the state of geography instruction in the schools and discusses current problems within the discipline. Specifically, the paper examines enrollment and course offerings in geography in the elementary and secondary schools, status of geography in social studies textbooks, and student performance on the geographic portion of the National Assessment of Educational Progress. Finding shortcomings in all three areas, the author concludes that problems result from the inability of educational decision makers to understand the value of geographic education and from the failure of geographic educators to create a position statement

on the role of geographic education in the schools and to communicate with social studies educators.

ED 186 337. THE VALUE AND USE OF MUSIC IN GEOGRAPHIC EDUCATION, by John H. Wise. 1979. 23 pp. EDRS price: MF01/PC02 plus postage.

This paper provides examples of how music can be used in geography instruction at all educational levels. The occasional use of music can foster imagination and promote greater aesthetic awareness with regard to landscapes and human situations. Many concepts and terms in physical geography can be linked with music. The paper lists musical selections which can be descriptive of land- and seascapes, climatic conditions, and historical events and which may be evocative of the ethos and culture of political areas and national groups.

ED 178 376. FAMILY ORIENTED GEOGRAPHIC FIELD EXPERIENCE, by Karen Ann Lalk Williams. 1979. 126 pp. EDRS price: MF01 plus postage; PC not available from EDRS.

This paper describes a program of geographic education which emphasizes field experience trips for family groups, including nuclear families, single-parent families with children, couples, and single-person families. Teaching methods are based on the multiple-age structure and multiple learning levels of the family unit. Included in the paper are objectives of geographic field experiences, definitions of five types of field experiences, a taxonomy of geographic learning, a model for family-oriented geographic field experience, and descriptions of three field experience programs sponsored by Delta College, where the program was developed. A bibliography is also included.

ED 177 557. THE EXAMINATION YEARS: WRITING IN GEOGRAPHY, HISTORY AND SOCIAL STUDIES, by Pat D'Arcy. 1978. 54 pp. EDRS price: MF01 plus postage; PC not available from EDRS. Available from Export Department, Ward Lock Educational, 116 Baker Street, London W1M 2BB, ENGLAND ($10.00 plus $1.00 postage for set of 8 pamphlets).

This is one in a series of eight discussion pamphlets produced by the Writing Across the Curriculum Project. This pamphlet discusses issues connected with writing as it relates to the areas of geography, history, and the social studies. Among the topics examined in the six chapters are the current situation, the aims and objectives of two new courses in geography and the humanities, disconnected writing, connected writing involving students working from both primary and secondary sources, and changes in emphasis in the kinds of writing required in the British examination system.

ED 166 301. ECOLOGY IN URBAN EDUCATION, by Letitia K. Johnson and Michael Ryan. 1978. 26 pp. EDRS price: MF01/PC02 plus postage.

This course guide to the teaching of urban ecology outlines six learning activities on the following topics: (1) city location and growth, (2) an in-depth study of New Orleans, (3) city shape and structure, (4) size and spacing of cities, (5) cities with special functions, and (6) local community study. Educational objectives for each activity are described. Library references, a bibliography, and possible community resources are included, as are methods for evaluating learning. Emphasis is placed on student awareness, decision making, and involvement in the local community.

ED 164 391. CENSUS GEOGRAPHY, by the Bureau of the Census. 1978. 38 pp. EDRS price: MF01 plus postage; PC not available from EDRS.

This document explains geographic concepts, products, and programs developed by the Census Bureau to assist users in analyzing census data for geographics. It would be useful for teachers who want to use census data in senior high school geography courses.

JOURNAL ARTICLES

Annotations of articles from journals covered in the ERIC system follow. All annotations appear in the Current Index to Journals in Education (CIJE), which is published on a monthly basis and is available at libraries throughout the country. In those cases where the journal annotation is not sufficient and the reader wishes to read the original article in its entirety, the reader must locate the appropriate issue of the journal in a library or on the newsstand. School, university, and public libraries are particularly good sources. If noted, reprints are available from University Microfilms (UMI), P.O. Box 1764, Ann Arbor, Michigan 48106.

EJ 249 255. "Critical Thinking Skills and Energy: Using Energy Error Cards in Geography Classes," by Rodney F. Allen and David E. LaHart. JOURNAL OF GEOGRAPHY, volume 80, number 2, pp. 64-70, February 1981. Reprint available from UMI.

The authors explain how an educational game involving the use of energy error cards can be used to help high school geography students learn geography content and develop their critical thinking skills.

EJ 249 254. "Landscape and Social Values in Popular Children's Literature: Nancy Drew Mysteries," by Susan R. Brooker-Gross. JOURNAL OF GEOGRAPHY, volume 80, number 2, pp. 59-64, February 1981. Reprint available from UMI.

This article examines the covert lessons in moral social geography found in a set of popular juvenile books published between 1924 and 1978--the Nancy Drew mystery series. Topics discussed include landscape symbolism, urban environments, uses of geographical elements in the stories, rural and wilderness settings, and social and landscape stereotypes.

EJ 247 834. "Beginning Geography: A Human and Technical Perspective," by Peter Gould. JOURNAL OF GEOGRAPHY IN HIGHER EDUCATION, volume 5, number 1, pp. 45-51, 1981.

This article describes a college-level introductory course in human geography built around five computer projects. No previous computer experience is required to use the projects. The course enables students to realize that the computer is a fundamental intellectual resource.

EJ 244 726. "Myth and the Real World: Fact or Fiction?," by James Hantula. SOCIAL EDUCATION, volume 45, number 5, pp. 260-262, May 1981. Reprint available from UMI.

The author explores various ways in which people use myths to communicate facts and influence values. He suggests activities to help upper elementary and junior high school students understand the role of myths and legends in geographic education. Activities include discussing perspectives on legendary lands, working with maps and globes, and thinking critically about fact versus fiction.

EJ 244 703. "Values Probing: An Integrated Approach to Values Education in Geography," by John Fien. JOURNAL OF GEOGRAPHY, volume 80, number 1, pp. 19-22, January 1981. Reprint available from UMI.

The author demonstrates the relevance of values-probing strategies in helping high school and college students understand values issues. In the approach described, students react to a conflict issue from their own perspectives and justify their reactions, clarify and evaluate their arguments and alternative viewpoints, discover the values that give rise to the arguments, and act on their values as opportunities arise.

EJ 239 441. "The Use of Sanborn Maps in Reconstructing 'Geographies of the Past': Boston's Waterfront from 1867 to 1972," by Robert A. Sauder. JOURNAL OF GEOGRAPHY, volume 79, number 6, pp. 204-213, November 1980. Reprint available from UMI.

This article explains the value of Sanborn maps in urban land use studies. Of particular value are the maps' detailed portrayal of street

patterns, lot lines, and the placement, size, shape, and use of buildings. The author shows how a Sanborn map can reconstruct a "geography of the past" of Boston's waterfront.

EJ 238 690. "Community Roots--A Middle School Program for Gifted Students," by Eleanor G. Hall. ROEPER REVIEW, volume 3, number 1, pp. 9-11, September- October 1980. Reprint available from UMI.

A summer program for gifted middle school students implemented the Enrichment Triad Model through community activities in which students learned the skills and tools of a geographer. Considerations for conducting such a program within a school include teacher selection, scheduling, and parent involvement.

EJ 233 016. "Geographic Education and the Anticipation of World Events," by John H. Wise. JOURNAL OF GEOGRAPHY, volume 79, number 4, pp. 154-155, April-May 1980. Reprint available from UMI.

The author recommends ways in which teachers of geography on the high school and college levels can decide which parts of the world are particularly suitable for study and select appropriate issues and events to meet course objectives. The article presents a list of 50 topics suitable for study.

EJ 231 077. "Geography Is More than Knowing: Deciding and Doing Are Basic Too!," by James B. Kracht and Richard G. Boehm. JOURNAL OF GEOGRAPHY, volume 79, number 3, pp. 104-107, March 1980. Reprint available from UMI.

Maintaining that decision-making and social-action skills are basic to geographic instruction, the authors suggest ways in which these skills can be developed.

EJ 229 284. "Unfolding Map Concepts," by John D. McAulay. TEACHER, volume 97, number 7, pp. 58, 60-62, April 1980. Reprint available from UMI.

Listed are a number of developmental and sequential map skills and concepts which can serve as a general guide to presenting and reinforcing basic map and geography ideas and related activities for preschool through grade 6 students.

STUDENT AND TEACHER MATERIALS

Materials appropriate for teachers and students follow. Textbooks, curriculum materials packages, simulations, audiovisual programs, student resources, and teacher resources are included. Information for ordering materials is provided in each annotation. Please write directly to the publisher for more information.

TEXTBOOKS

GEOGRAPHY IN AN URBAN AGE, developed by the High School Geography Project of the Association of American Geographers. 1979 (rev. ed.). Grades 9-12.

Macmillan Publishing Co.
866 Third Avenue
New York, New York 10022
Price: contact the publisher for information.

The High School Geography Project materials, published originally in 1969 and revised in 1979, include five units, each containing a student resource book, a student workbook, and a teacher's guide; map kits and transparencies are included in some units. The units are "Geography of Cities," "Manufacturing and Agriculture," "Cultural Geography," "Political Geography," and "Environment and Resources." The units employ an inquiry approach that encourages active student involvement in the learning process.

GLOBAL GEOGRAPHY, by Preston E. James and Nelda Davis. 1981. 598 pp. Grades 9-12.

Macmillan Publishing Co., Inc.
866 Third Avenue
New York, New York 10022
Price: text, $14.85; teacher's edition, $15.60, workbook and teacher's edition of workbook, $2.70; tests on duplicating masters, $10.20.

GLOBAL GEOGRAPHY is a complete update of THE WIDE WORLD: A GEOGRAPHY, published in 1972. A section to teach basic map skills has been added

at the book's beginning. This is followed by a brief introduction to geography and geographers' methods, a definition of the term culture region, and a description of how the book is laid out. The first unit presents a global view of geography through a broad look at culture, technology, environment, and land use. The remainder of the book is devoted to the world's 11 culture regions. The teaching strategies and the book's content are standard, requiring reading, discussion, and a great deal of factual recall. Suggestions in the teacher's edition for individualizing instruction provide for more stimulating activities.

LAND AND PEOPLE: A WORLD GEOGRAPHY, by Gerald A. Danzer and Albert J. Larson. 1979. 640 pp. Grades 9-12.

Scott, Foresman and Co.
1900 East Lake Avenue
Glenview, Illinois 60025
Price: text, $13,98; teacher's edition, $15.00; workbook, $3.57; teacher's edition of workbook, $3.87; tests on duplicating masters, $31.20.

LAND AND PEOPLE is a text designed for high school students taking a yearlong geography course. The 30 chapters, organized into nine units, focus on land, people, and how people and the land interact. Emphasis is placed on reading and communication, critical thinking, map, and social studies skills. Special features include source material, unusual facts, career information, and perspectives from space and time.

OUR WORLD AND ITS PEOPLES, by Edward R. Kolevzon and John A. Heine. 1981 (2nd ed.). 576 pp. Grades 7-12.

Allyn and Bacon, Inc.
470 Atlantic Avenue
Boston, Massachusetts 02210
Price: text, $15.60; teacher's guide, $8.04; workbook on duplicating masters, $36.00; tests on duplicating masters, $36.00.

OUR WORLD AND ITS PEOPLES is designed to be used as the basis for a one-year junior or senior high school course in world geography. Students examine the relationship between people and their environment in nine major cultural regions of the world. This edition of the text has new and updated photographs, maps, and charts that enliven the easy-to-read text. Students are involved in reading the textbook, which includes 32 case studies focusing on important concepts or trends, analyzing maps, and participating in discussions and various activities.

OUR WORLD TODAY SERIES, by Harold D. Drummond and James W. Hughes. 1980-1982. 320 to 566 pp. Grades 5-9.

Allyn and Bacon, Inc.
470 Atlantic Avenue
Boston, Massachusetts 02210
Price: 4 texts, $12.90 each; 4 teachers' editions, $15.00 each; 4 workbooks and teachers' editions of workbooks, $4.20 each.

Each of the four texts in this series--JOURNEYS THROUGH MANY LANDS, JOURNEYS THROUGH THE AMERICAS, THE EASTERN HEMISPHERE, and THE WESTERN HEMISPHERE--provide adequate material for a year's worth of instruction. The authors have infused ideas and generalizations from other social science disciplines into the primarily geographic content of the texts. The teachers' editions provide objectives and detailed suggestions for presenting the material, as well as answers to questions in the texts. The major activities are reading, discussion, and paper-and-pencil exercises.

PEOPLE, PLACES, AND CHANGE, by Leonard Berry and Richard B. Ford. 1981 (2nd ed.). 532 pp. Grades 7-9.

Holt, Rinehart and Winston, Inc.
383 Madison Avenue
New York, New York 10017
Price: text, $12.19; teacher's edition, $18.27; workbook, $3,48; teacher's edition of workbook, $4,38; tests on duplicating masters, $20.88.

The second edition of PEOPLE, PLACES, AND CHANGE provides a one-year introduction to world history, geography, and cultures for students in grades 7-9. Both the text's format and content have been completely revised. The 27 chapters in the seven units on major world regions each present information about a region and a representative country in that region. Updated and additional visuals are part of each chapter. The teacher's edition of the text includes activities for advanced, average, and slower students. Workbook exercises help students recall and comprehend information and develop geography skills.

THIS IS OUR WORLD, by George H.T. Kimble. 1981. 435 pp. Grades 7-9.

Silver Burdett Co.
250 James Street
Morristown, New Jersey 07960
Price: text, $12.50; teacher's edition, $17.08; workbook, $3.17; teacher's edition of workbook, $6.96.

This geography textbook, designed for average and below-average students in grades 7-9, provides ample material for a yearlong course. The text is interdisciplinary, with content drawn from history, anthropology, sociology, economics, and political science. Themes developed are the relationship of people to the earth; the value, use, and distribution of the earth's natural resources; population growth; the adaptive ability of people and their effect on the earth; and people's involvement and commitment to preserve the environment. The teacher's edition provides detailed lesson plans which include activities for slower learners.

WORLD GEOGRAPHY, developed by Educational Challenges, Inc. 1979. 490 pp. Grades 7-10.

American Book Co.
135 West 50th Street
New York, New York 10020
Price: text, $13.08; teacher's edition, $14,31; workbook, $3.93; teacher's edition of workbook, $4.95; tests on duplicating masters, $22.26.

WORLD GEOGRAPHY is a traditional geography text for secondary students. The major part of the text focuses on the geography of eight world regions. The emphases are on physical geography and how people interact with the environment. One unusual feature of the text is the use of Landsat images. Activities in the teacher's edition and workbook encourage understanding of geographical facts and concepts and development of map, social studies, and study skills.

WORLD GEOGRAPHY, by Herbert H. Gross. 1980. 544 pp. Grades 7-12.

Follett Publishing Co.
1010 West Washington Boulevard
Chicago, Illinois 60607
Price: text, $12.93; teacher's edition, $15.12.

WORLD GEOGRAPHY is a one-year textbook for use in grades 7-12. The easy-to-read, well-illustrated text will help students acquire a knowledge of both physical and cultural geography. The authors have emphasized skill development through reading, classroom discussion, and class activities.

WORLD GEOGRAPHY, by Alan Backler and Stuart Lazarus. 1980. 608 pp. Grades 9-12.

Science Research Associates
155 North Wacker Drive
Chicago, Illinois 60606
Price: text, $13.95; teacher's guide, $2.95; workbook, $2.75.

WORLD GEOGRAPHY is a secondary text designed to help students apply geographic concepts, skills, and data to such current issues as pollution, the energy crisis, population shifts, and food supplies. Some of the text's 26 chapters introduce basic geographic skills and concepts while others describe major world culture realms. The text, which uses numerous case studies and features sequential skill building, is accompanied by a workbook and an instructor's manual containing teaching strategies for each of the objectives listed in the student text. The text provides material for a yearlong course; chapters can be selected for use in semester courses with narrower topic foci.

WORLD GEOGRAPHY, by Norman J.G. Pounds. 1980. 704 pp. Grades 10-12.

Silver Burdett Co.
250 James Street
Morristown, New Jersey 07960
Price: text, $11.97; teacher's guide, $4.02; set of 57 duplicating masters, $21.42.

WORLD GEOGRAPHY can be used as the basis of a one-year course in world geography for high school students. The text is based on a combined topical/ regional approach. The first two units introduce students to various geographic concepts and topics, while the remaining three units examine regions of the world. One of these units is devoted to the United States and Canada; the other two examine developed and developing nations. The major teaching technique is read and review, with attention given to reading, writing, and geography-related skills.

WORLD GEOGRAPHY TODAY, by Saul Israel, Douglas L. Johnson, and Denis Wood. 1980. 576 pp. Grades 7-12.

Holt, Rinehart and Winston, Inc.
383 Madison Avenue
New York, New York 10017
Price: text, $13.98; teacher's edition, $18.99; workbook, $4.59; teacher's edition of workbook, $5.97; tests on duplicating masters, $41.97.

WORLD GEOGRAPHY TODAY can be used best in a yearlong senior high world geography course. Major units of the text focus on physical and cultural geography, eight world regions, and the use of the world's resources. Photographic essays, special interest features, and the liberal use of maps enhance the text's interest level. An emphasis on vocabulary makes geographical concepts more readily understood.

NOTE: The above listing of textbook materials does not include many elementary texts because virtually all the commercially available elementary textbook series include geographic objectives in their multidisciplinary approach. Some programs do place significantly greater emphasis on geography and map and globe skills than others, but so many other factors affect selection of texts at the elementary level that it was decided not to list elementary programs here.

## SUPPLEMENTARY PRINT MATERIALS

GRAPHIC LEARNING STATE STUDIES PROGRAMS. 1978-1981. Grade 4.

Graphic Learning Corporation
Box 5827
Tallahassee, Florida 32301
Price: contact the publisher for information.

The GRAPHIC LEARNING STATE STUDIES PROGRAMS include two instructional tools: large, laminated desk maps and teacher's notebooks containing masters for student worksheets. Through use of these tools, students develop map skills while learning about the history, geography, and current status of their state. Programs for a number of states and some large urban areas have been developed. Contact the publisher for information regarding specific programs.

LEARNING ABOUT THE EARTH. 1979 (rev. ed.). Grades 5-9.

Cambridge Book Company
888 Seventh Avenue
New York, New York 10019
Price: $2.90; teacher's edition, $4.40.

This book emphasizes the acquisition of basic geographic skills. The concepts covered include climate, topography, land use, resources, vegetation, population, and special tools of the geographer. Exercise questions, glossaries, puzzle pages, and reviews are used to enhance the learning process.

MASTERING GEOGRAPHY, by Ruth Rice. 1980. Grades 7-12.

J. Weston Walch, Publisher
Box 658
Portland, Maine 04104
Price: $10.25.

This set of 26 duplicating masters provides games, puzzles, and mystery statements which present information on a variety of geography topics and on the major regions of the world. Example concepts covered are latitude and longitude, natural resources, and climate.

SCHOLASTIC SOCIAL STUDIES SKILLS PROGRAM. 1980-1981. Grades 7-12.

Scholastic Book Services
904 Sylvan Avenue
Englewood Cliffs, New Jersey 07632
Price: guides, each containing 12 pp. plus 12 transparencies and 24 duplicating masters, $16.95 each.

The SCHOLASTIC SOCIAL STUDIES SKILLS PROGRAM is a series of units designed to develop secondary students' social studies skills in eight areas: reading maps, reading charts, reading graphs, critical thinking, decision making, reference and research, time and sequence, and understanding political cartoons. Each unit contains 12 lessons. The primary teaching tools used are transparencies and worksheets, which introduce students to the subject skills and provide opportunities for them to practice those skills. The units are divided into two levels--those for students who need work in basic skills and those suitable for students with some grounding in the skills.

SPECIAL MATERIALS FOR SPECIAL LEARNERS, by Barbara Nesbit. 1977-1978. Grades 7-12.

Social Studies School Service
10,000 Culver Boulevard
Box 802
Culver City, California 90230
Price: 4 books containing 24 duplicating masters each, $4.50 each.

These books of duplicating masters contain worksheets designed for use with students who have learning difficulties--whether they are mainstreamed or in self-contained classes. While helping students develop basic geography and map reading skills, the worksheets also reinforce reading, writing, and computation skills. Reading level of the worksheets is grades 6-8.

## MULTIMEDIA MATERIALS

ADVENTURES IN MAPPING, LEVEL ONE, by Floyd W. Griggs, Don Reda, and Tad D. Root. 1980. Grades 3-4.

Rand McNally and Co.
Box 7600
Chicago, Illinois 60680
Price: package containing 30 student workbooks, 30 classroom atlases, 30 pre/posttests, 30 folding maps and 30 folding globes, 3 filmstrip/cassette programs, 1 poster, 22-pp teacher's guide, $165.00.

A three-part series, ADVENTURES IN MAPPING is a multimedia program designed to present an in-depth look at our planet earth through the use of maps, globes, atlases, and other tools of geography. Level one provides material for from 10 to 15 classroom periods of supplementary geography instruction for students in grades 3 and 4. The teacher's guide provides detailed instructions for using the program. The student workbooks and folding maps and globes are consumable and must be replaced each year.

GEOGRAPHY OF THE UNITED STATES. 1979. Grades 2-6.

National Geographic Educational Services
Box 1269
Washington, D.C. 20013
Price: 10 filmstrips, 10 cassettes, 5 program guides, $213.75 (contact publisher for information regarding purchase of individual components).

This five-part series is designed to introduce elementary students to the regions of the United States. One filmstrip/cassette program is devoted to each of the following regions: the Pacific states, Alaska and Hawaii, the Southwest,

the mountain states, the upper South, the lower South, the Great Lakes states, the Great Plains states, New England, and the mid-Atlantic states.

HERE, THERE, AND EVERYWHERE. 1980. Grades 1-4.

George F. Cram Co., Inc.
301 South LaSalle Street
Box 426
Indianapolis, Indiana 46206
Price: contact publisher for information.

This program includes numerous materials, including flash cards, desk maps, cassettes, transparencies, filmstrips, and duplicating masters. All are used to teach students basic map and globe skills, beginning with the immediate environment and expanding to the United States and the world.

LANDSAT: SATELLITE FOR ALL SEASONS, produced by NASA and the Educational Film Center. 1977. Grades 7-12.

Agency for Instructional Television
Box A
Bloomington, Indiana 47402
Price: 6 videocassettes, $110.00 each (contact publisher for information regarding broadcast fees).

This six-part program examines how scientists use the information provided by Landsat to help solve environmental problems. Example problems discussed are changing land use, finding habitats for endangered species, studying flood control, and identifying possible earthquake sites. The programs use interviews, mock-ups, and studio and field segments as well as satellite imagery.

MAP BASICS: A MAP AND GLOBE SKILLS PROGRAM, developed by Michael Hardy Productions. 1980. Grades 4-6.

Denoyer-Geppert Co.
5235 Ravenswood Avenue
Chicago, Illinois 60640
Price: 6 filmstrips, 6 cassettes, 71-pp teacher's guide, 25-pp book of duplicating masters, $155.00.

MAP BASICS: A MAP AND GLOBE SKILLS PROGRAM is a set of six filmstrip/cassette programs with related activities. The program is designed to introduce and reinforce the basic map-making and interpretation skills of intermediate-level students. The concepts are introduced through the filmstrip programs, which feature a group of young people who are trying to solve a jewel robbery. Concepts and skills are reinforced through paper-and-pencil activities provided on the duplicating masters and through a variety of student-involvement activities suggested in the accompanying teahcer's manual.

MAPS, GLOBES AND DIRECTIONS, developed by Solari Communications. 1978. Grades 1-4.

BFA Educational Media
2211 Michigan Avenue
P.O. Box 1795
Santa Monica, California 90406
Price: 4 filmstrips, 4 cassettes, 31-pp teacher's guide, 20 duplicating masters, $90.00.

MAPS, GLOBES AND DIRECTIONS is a four-part sound-filmstrip program designed to teach students in grades 1-4 a variety of basic map and globe skills. The four filmstrips feature students involved in interesting map-related activities that the program's developers believe will motivate viewers to participate in similar activities in their own classroom. The teacher's guide presents additional student- involvement activities, as well as a synopsis of each filmstrip, vocabulary lists, pre-viewing activities, and discussion questions.

MAPWORKS: A MAP INTERPRETATION PROGRAM, by John Rooney, Jr. 1980. Grades 4-6.

Denoyer-Geppert Co.
5235 Ravenswood Avenue
Chicago, Illinois 60640
Price: 3 filmstrips, 3 cassettes, 31-pp teacher's guide, 3 paperbound books containing 24 duplicating masters each, $98.00.

MAPWORKS is an intermediate-level audiovisual package designed to develop map interpretation skills and understanding of important concepts of cultural and physical geography. The package includes three filmstrip/cassette programs: "Water and Land," "Mountains and Plains," and "Cities and Towns." The programs can be used separately or together. Each filmstrip is also accompanied by a book of duplicating masters providing a unit test and paper-and-pencil work-

sheets. The teacher's guide contains many suggestions for exploring the physical and cultural geography of students' own communities.

OUR NATURAL RESOURCES: WHERE ARE THEY NOW? WHERE WILL WE FIND THEM TOMORROW? 1981. Grades 9-12.

Guidance Associates
Communications Park, Box 3000
Mount Kisco, New York 10549
Price: 4 cassettes, teacher's guide, $149.50.

This program examines six natural resources--water, soil, minerals, energy, air, and wildlife. Their present status in North America, how the current situation developed, and efforts to protect these resources are among the topics discussed.

RESOURCES AND WORLD TRADE. 1979. Grades 7-12.

BFA Educational Media
2211 Michigan Avenue
Santa Monica, California 90404
Price: Color film (13 min.), purchase, $205.00; rental, $21.00.

The film identifies the location of many of the world's resources and explores the importance of waterways in the development of regional and world trade. The concept of reciprocity between trading "partners" in different regions of a nation or in different nations is developed.

WHERE AND WHY. 1981 (rev. ed.). Grades 3-8.

Nystrom
3333 Elston Avenue
Chicago, Illinois 60618
Price: 24 cassettes, 2 teacher's guides, 92 duplicating masters, 150 study prints, 35 test books, $420.00.

This program can be used as the basis for a concentrated study of geography at one grade level or can be used to supplement instruction over several years. The program's basic materials, which the publisher recommends be used with other Nystrom maps and globes, cover 61 objectives related to such geographic concepts as climate, latitude, and elevation.

GAMES AND SIMULATIONS

ADAPT: AN INTERACTION UNIT. 1975. Grades 7-12.

Interact
Box 997
Lakeside, California 92040
Price: $16.00.

In ADAPT students receive maps of a newly discovered continent; the maps show climate, vegetation, minerals, wildlife, and landforms. The initial task is to explain how different factors would influence the location of a hunting and gathering society. The influence of physical geography on future societies may also be examined.

EXPLOSION. 1976. Grades 7-12.

Interact
Box 997
Lakeside, California 92040
Price: $25.00.

Students role play inhabitants of a society whose six regions match six American regions. In various phases of the game the society faces a population problem, must investigate the use of natural resources, and makes decisions regarding a series of population-related problems.

GEO: THE GLOBAL EXPERIENCE. 1978. Grades 5-9.

Rand McNally and Co.
Box 7600
Chicago, Illinois 60680
Price: globe, 23-pp globe handbook, folder containing 3 instruction sheets and 5 duplicating masters for worksheets, a flexible plastic ruler, and 25 sets of game cards, $35.00.

GEO: THE GLOBAL EXPERIENCE is a game designed to teach globe skills to and reinforce listening skills of students in grades 5-9. The game can be used in a number of ways: as few as two students can play the game in individual work time, or as many as 40 students can be involved in a GEO tournament. The game is played by two teams of from one to three players each. Players

on one team read challenge questions to their opponents; these questions require location of a city, country, or other feature on the globe using latitude and longitude. Bonus points are scored by answering additional questions which require understanding of direction and distance on the globe.

MAP GAMES: GEOGRAPHY. 1976-1981. Grades 4-12.

Social Studies School Service
10,000 Culver Boulevard
Box 802
Culver City, California 90230
Price: contact publisher for information.

This series includes 15 map games for small or large groups. The games teach students the locations of countries of the world, the continents, important rivers and bodies of water, the states of the United States, Canadian provinces, important cities, and other geographic facts. Each game includes five maps which serve as game boards, five packs of playing cards, a teacher's guide, and duplicating masters for worksheets. The time required to use the games varies, as does the number of players.

TEACHER RESOURCES

BASIC CLASSROOM SKILLS THROUGH GAMES, by Irene Wood Bell and Jeanne E. Pieckert. 1980. 258 pp.

Libraries Unlimited, Inc.
Box 263
Littleton, Colorado 80160
Price: $13.50.

BASIC CLASSROOM SKILLS THROUGH GAMES provides instructions for 105 games, approximately half for use with students in grades 1-3 and half for students in grades 4-6. Developed by two media specialists, many of the games focus on library skills, but language arts and geography skills are also addressed. The 20 games included in the section on map skills are designed to promote such skills as the use of directions, the use of a grid, and the use of symbols. Locations of states, state abbreviations and capitals, and locations of countries are also covered. The games are quite varied.

CURRICULUM PLANNING IN GEOGRAPHY, by Norman J. Graves. 1979. 180 pp.

Heinemann Educational Books, Inc.
4 Front Street
Exeter, New Hampshire 03833
Price: $10.50.

Graves believes that to develop geography curricula, elementary and secondary teachers must understand curriculum theory as well as geography subject matter. Awareness of these two areas helps teachers decide what students should learn, how they can learn the selected material, and how student achievement can be evaluated. Curriculum models useful in developing geography curricula are presented, as are sample curricula for junior high and high school. Although most illustrative examples and bibliographic references are British, the basic concepts, topics, and suggested procedures are relevant to a wider audience.

GEOGRAPHY TEACHING WITH A LITTLE LATITUDE: CLASSROOM CLOSE-UPS: 7, by L.J. Jay. 1981. 137 pp.

George Allen and Unwin, Inc.
9 Winchester Terrace
Winchester, Massachusetts 01890
Price: $9.95.

The author discusses items and anecdotes accumulated during many years of studying and teaching geography. The approach is practical and humorous, with many useful items of information included. For example, the first chapter discusses the fascination students have with place names. Another chapter examines puns and riddles. The ways children informally learn about geography--informal conversations between adults, advertisements, newspapers and magazines, and travel experiences--are discussed in another chapter. Other topics covered include travel, testing, and the transmission of geographical data through literature. The concluding chapter gives a balanced assessment of the rewards and pitfalls associated with the use of humor in teaching.

THE STUDY AND TEACHING OF GEOGRAPHY, by Jan O.M. Broek. 1980. 108 pp.

Charles E. Merrill Publishing Co.
1300 Alum Creek Drive
Columbus, Ohio 43216
Price: $4.95.

Part of the six-volume THE STUDY AND TEACHING OF SOCIAL SCIENCE SERIES, this book presents basic information about the discipline of geography, along with suggested teaching strategies which can be used by teachers with widely differing philosophies. The first five chapters in the book provide an overview of "Geographic Thought and Practice," "Development of Geographic Thought," "Viewpoints in Geography," "The Methods of Geography," and "Some Research Themes." The final chapter presents activities keyed to particular goals: helping students understand the nature of the environment, helping students examine developed and developing societies, and helping students think geographically about the future. The activities are varied. Although suggested grade levels are given for the activities, many are adaptable for a range of ages and ability levels.

TOWARD GEOGRAPHIC LITERACY: OBJECTIVES FOR GEOGRAPHIC EDUCATION IN THE ELEMENTARY SCHOOL, by George Vuicich and Gary A. Manson. 1976. 30 pp.

Social Science Education Consortium, Inc.
855 Broadway
Boulder, Colorado 80302
Price: $1.95.

Two goals of elementary education--intellectual development and social education--are discussed in this booklet. From these goals, specific objectives for geographic education are derived.

WHAT CAN CHILDREN LEARN IN GEOGRAPHY? A REVIEW OF RESEARCH, by Marion J. Rice and Russell L. Cobb. 1979. 130 pp.

Social Science Education Consortium, Inc.
855 Broadway
Boulder, Colorado 80302
Price: $6.95.

This monograph is the result of a collaborative effort by the ERIC Clearinghouse for Social Studies/Social Science Education and the National Council on Geographic Education's Task Force on Elementary and Secondary Education. In addition to major sections devoted to review of studies of map skill mastery and conceptual and analytical processes in children's geographic learning, the paper describes five anecdotal accounts--two originating in work of the 1920s, two from the 1960s, and one from the 1970s--which represent optimistic views of what young children can learn. Summaries of the content and sequence of 11 selected geography curriculum projects are presented in appendices.